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Claim Amendments:

 (currently amended) An improved method of fabricating a micro-mechanical device, the method comprising:

depositing at least one sacrificial layer on a substrate;

curing the sacrificial layer;

fabricating a micro-mechanical device on the sacrificial layer; and

removing the sacrificial layer by immersing the substrate in a cleansing solution comprising super-critical carbon dioxide and a solvent suitable to remove the sacrificial layer.

- 2. (currently amended) A method according to claim 1, wherein the solvent is selected from the group consisting of methanol, ethanol, ethyl acetate, methyl acetate, acetone, methylethylketone, [[or]] and methyl tertiary-butyl ether.
- 3. (original) A method according to claim 1, wherein the sacrificial layer comprises a photoresist solution.
- 4. (original) A method according to claim 3, wherein the photoresist solution comprises a mixture of novolac resin and a photoresist solvent.
- 5. (original) A method according to claim 1, wherein the step of curing the sacrificial layer comprises a hard bake.

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6. (original) A method according to claim 1, wherein the step of curing the sacrificial layer comprises a soft bake.

- 7. (original) A method according to claim 1, wherein the step of curing the sacrificial layer comprises UV hardening.
- 8. (original) A method according to claim 1, wherein the step of removing the sacrificial layer further comprises agitating the cleansing solution with an impeller.
- 9. (original) A method according to claim 1, wherein the cleansing solution further comprises a non-ionic surfactant solution.
- 10. (original) A method according to claim 9, wherein the non-ionic surfactant solution comprises a polystyrene-b-poly(1,1-dihydroperfluorooctyl acrylate) copolymer.
- 11. (currently amended) An improved method of fabricating a micro-mechanical device, the method comprising:

depositing at least one sacrificial layer on a substrate;

curing the sacrificial layer;

fabricating a micro-mechanical device on the first sacrificial layer;

removing the first sacrificial layer;

recoating the micro-mechanical device with a recoat layer of sufficient thickness to completely encapsulate the micro-mechanical device;

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curing the recoat layer; and

removing the recoat layer by immersing the substrate in a cleansing solution comprising super-critical carbon dioxide and a solvent suitable to remove the sacrificial layer.

- 12. (currently amended) A method according to claim 11, wherein the solvent is selected from the group consisting of methanol, ethanol, ethyl acetate, methyl acetate, acetone, methylethylketone, [[or]] and methyl tertiary-butyl ether.
- 13. (original) A method according to claim 11, wherein the recoat layer comprises a mixture of novolac resin and a photoresist solvent.
- 14. (original) A method according to claim 13, wherein the recoat layer does not contain a photoactive compound.
- 15. (original) A method according to claim 11, wherein the step of curing the recoat layer comprises a hard bake.
- 16. (original) A method according to claim 11, wherein the step of curing the recoat layer comprises a soft bake.
- 17. (original) A method according to claim 11, wherein the step of curing the recoat layer comprises UV hardening.

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18. (original) A method according to claim 11, wherein the step of removing the recoat layer further comprises agitating the cleansing solution with an impeller.

- 19. (original) A method according to claim 11, wherein the cleansing solution further comprises a non-ionic surfactant solution.
- 20. (original) A method according to claim 19, wherein the non-ionic surfactant solution comprises a polystyrene-b-poly(1,1-dihydroperfluorooctyl acrylate) copolymer.
- 21. (currently amended) An improved method of fabricating a micro-mechanical device, the method comprising:

depositing a first sacrificial layer on a substrate;

removing portions of the first sacrificial layer to define a first set of vias;

depositing a first metal layer on the first sacrificial layer;

removing portions of the first metal layer to define a set of first via supports;

depositing a second sacrificial layer on the first metal layer;

removing portions of the second sacrificial layer to define a second set of vias;

depositing a second metal layer on the second sacrificial layer;

removing portions of the second metal layer to define a set of second vias; and

removing the first and second sacrificial layers by immersing the substrate in a

cleansing solution comprising super-critical carbon dioxide and a solvent suitable to

remove the sacrificial layers.

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- 22. (currently amended) A method according to claim 21, wherein the solvent is selected from the group consisting of methanol, ethanol, ethyl acetate, methyl acetate, acetone, methylethylketone, [[or]] and methyl tertiary-butyl ether.
- 23. (original) A method according to claim 21, wherein the first and second sacrificial layers comprise a photoresist solution.
- 24. (original) A method according to claim 23, wherein the photoresist solution comprises a mixture of novolac resin and a photoresist solvent.
- 25. (original) A method according to claim 21, wherein the step of removing the sacrificial layers further comprises agitating the cleansing solution with an impeller.
- 26. (original) A method according to claim 21, wherein the cleansing solution further comprises a non-ionic surfactant solution.
- 27. (original) A method according to claim 26, wherein the non-ionic surfactant solution comprises a polystyrene-b-poly(1,1-dihydroperfluorooctyl acrylate) copolymer.
- 28. (currently amended) An improved method of fabricating a micro-mechanical device, the method comprising:

depositing a first sacrificial layer on a substrate; removing portions of the first sacrificial layer to define a first set of vias;

depositing a first metal layer on the first sacrificial layer;

removing portions of the first metal layer to define a set of first via supports;

depositing a second sacrificial layer on the first metal layer;

removing portions of the second sacrificial layer to define a second set of second

via forms; vias;

depositing a second metal layer on the second sacrificial layer;

removing portions of the second metal layer to define a set of second via supports;

recoating the micro-mechanical device with a recoat layer of sufficient thickness

to completely encapsulate the micro-mechanical device;

curing the recoat layer; and

removing the recoat layer by immersing the substrate in a cleansing solution comprising super-critical carbon dioxide and a solvent suitable to remove the recoat layer.

- 29. (currently amended) A method according to claim 28, wherein the solvent is selected from the group consisting of methanol, ethanol, ethyl acetate, methyl acetate, acetone, methylethylketone, [[or]] and methyl tertiary-butyl ether.
- 30. (original) A method according to claim 28, wherein the recoat layer comprises a mixture of novolac resin and a photoresist solvent.
- 31. (original) A method according to claim 30, wherein the recoat layer does not contain a photoactive compound.

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- 32. (original) A method according to claim 28, wherein the step of curing the recoat layer comprises a hard bake.
- 33. (original) A method according to claim 28, wherein the step of curing the recoat layer comprises a soft bake.
- 34. (original) A method according to claim 28, wherein the step of curing the recoat layer comprises UV hardening.
- 35. (currently amended) A method according to claim 28, wherein the step of removing the sacrificial recoat layer further comprises agitating the cleansing solution with an impeller.
- 36. (original) A method according to claim 28, wherein the cleansing solution further comprises a non-ionic surfactant solution.
- 37. (original) A method according to claim 36, wherein the non-ionic surfactant solution comprises a polystyrene-b-poly(1,1-dihydroperfluorooctyl acrylate) copolymer.